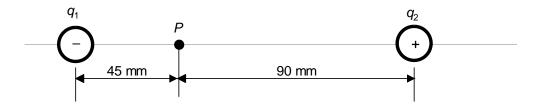
## <u>SPH4UI DL W10 – Fields Practice Problems</u>

- 1. Two charged spheres charges are 135 mm apart. The charge on  $q_1$  is -5.6x10<sup>-7</sup>C and the charge on  $q_2$  is 11.2x10<sup>-7</sup>C.
  - a. Find the net electric field at point P.
- b. What would the force on an electron be if it was placed at point P? (the charge on electron is  $1.602 \times 10^{-19}$ C)



2. An electron is place in the middle of a two charged plates which are separated by 8.5 cm. If the voltage across the plates is 120V what is the acceleration of the electron? (the charge on an electron is  $1.602 \times 10^{-19}$ C and the mass of an electron is  $9.11 \times 10^{-31}$ kg)

